FIG. 1

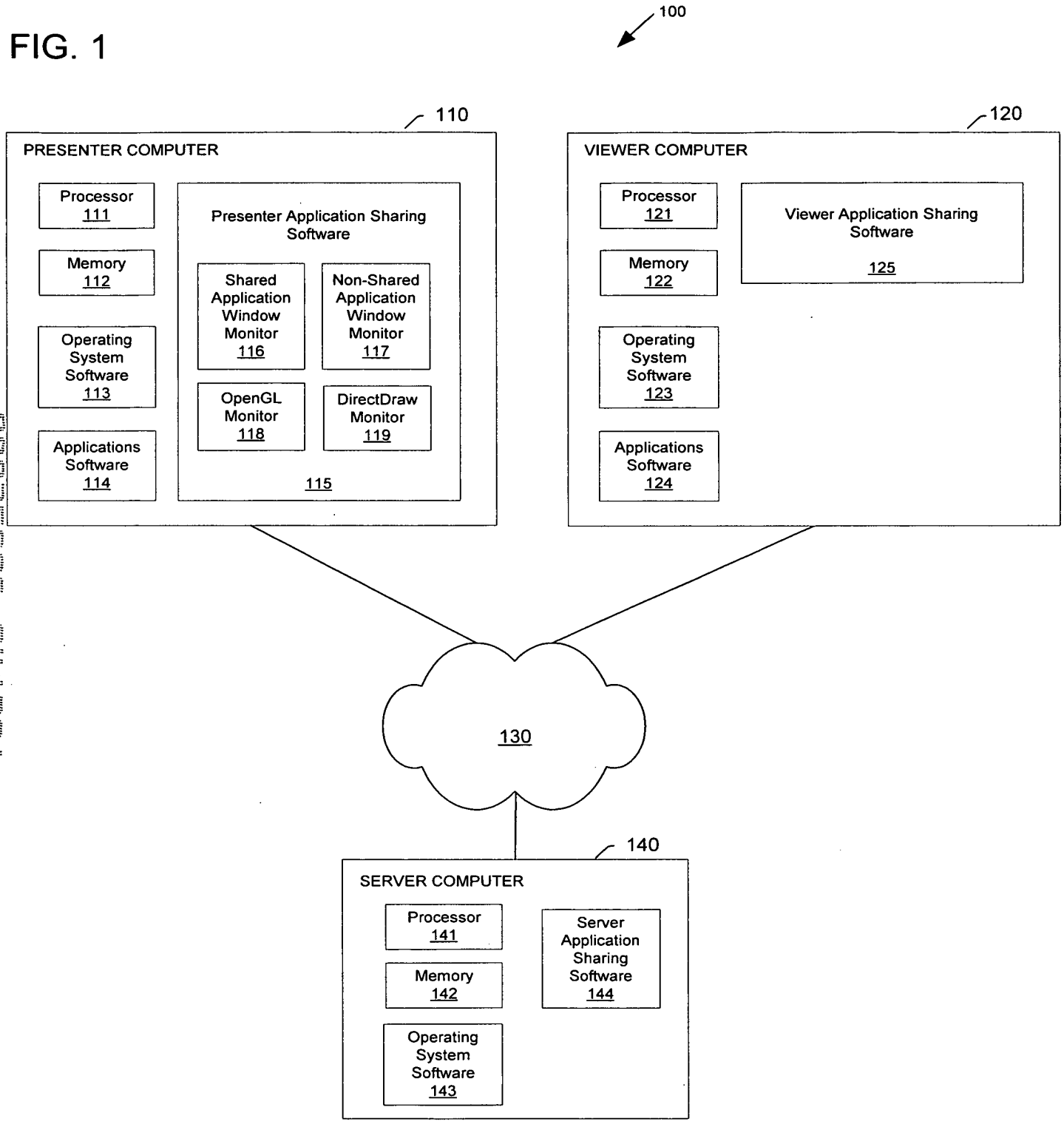
100
110
PRESENTER COMPUTER
Processor 111
Memory 112
Operating System Software 113
Applications Software 114
Presenter Application Sharing Software
Shared Application Window Monitor 116
Non-Shared Application Window Monitor 117
OpenGL Monitor 118
DirectDraw Monitor 119
115
120
VIEWER COMPUTER
Processor 121
Memory 122
Operating System Software 123
Applications Software 124
Viewer Application Sharing Software 125
130
140
SERVER COMPUTER
Processor 141
Memory 142
Operating System Software 143
Server Application Sharing Software 144

FIG. 2

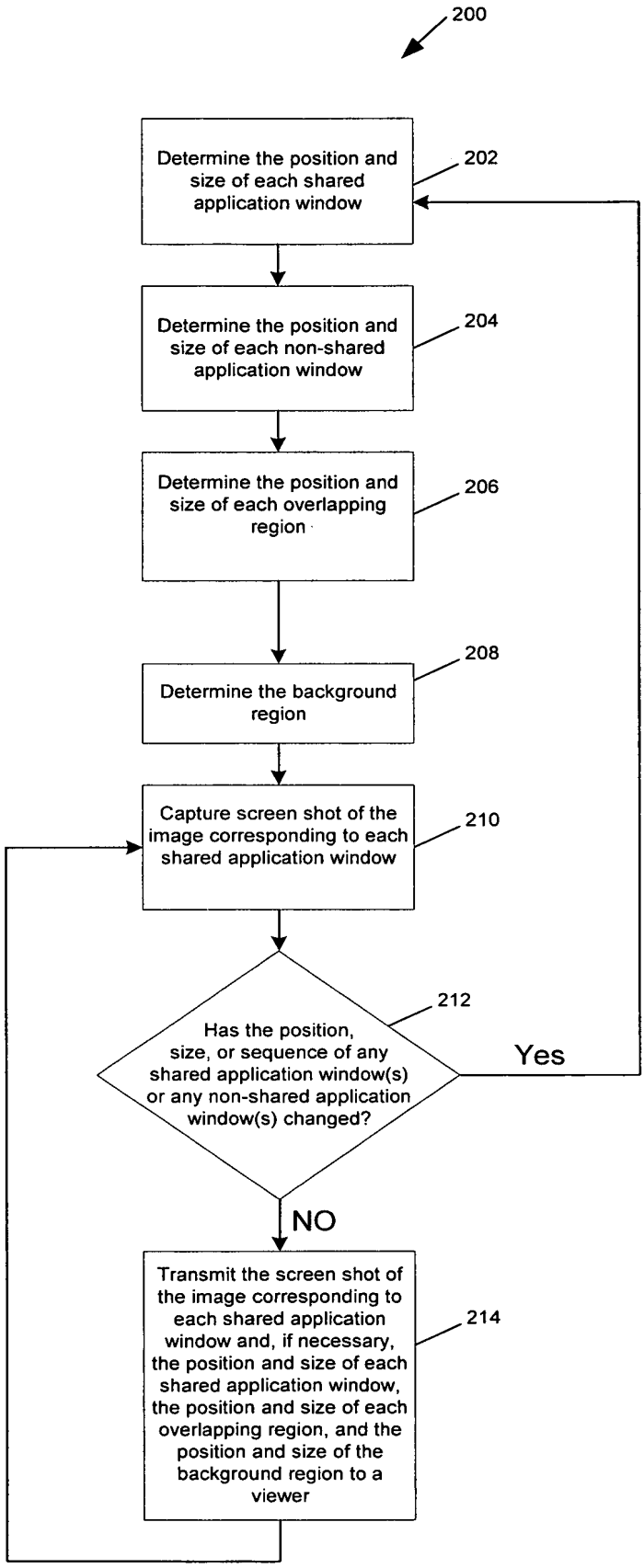
200
Determine the position and size of each shared application window
202
Determine the position and size of each non-shared application window
204
Determine the position and size of each overlapping region
206
Determine the background region
208
Capture screen shot of the image corresponding to each shared application window
210
Has the position, size, or sequence of any shared application window(s) or any non-shared application window(s) changed?
212
Yes
NO
Transmit the screen shot of the image corresponding to each shared application window and, if necessary, the position and size of each shared application window, the position and size of each overlapping region, and the position and size of the background region to a viewer
214

FIG. 3A

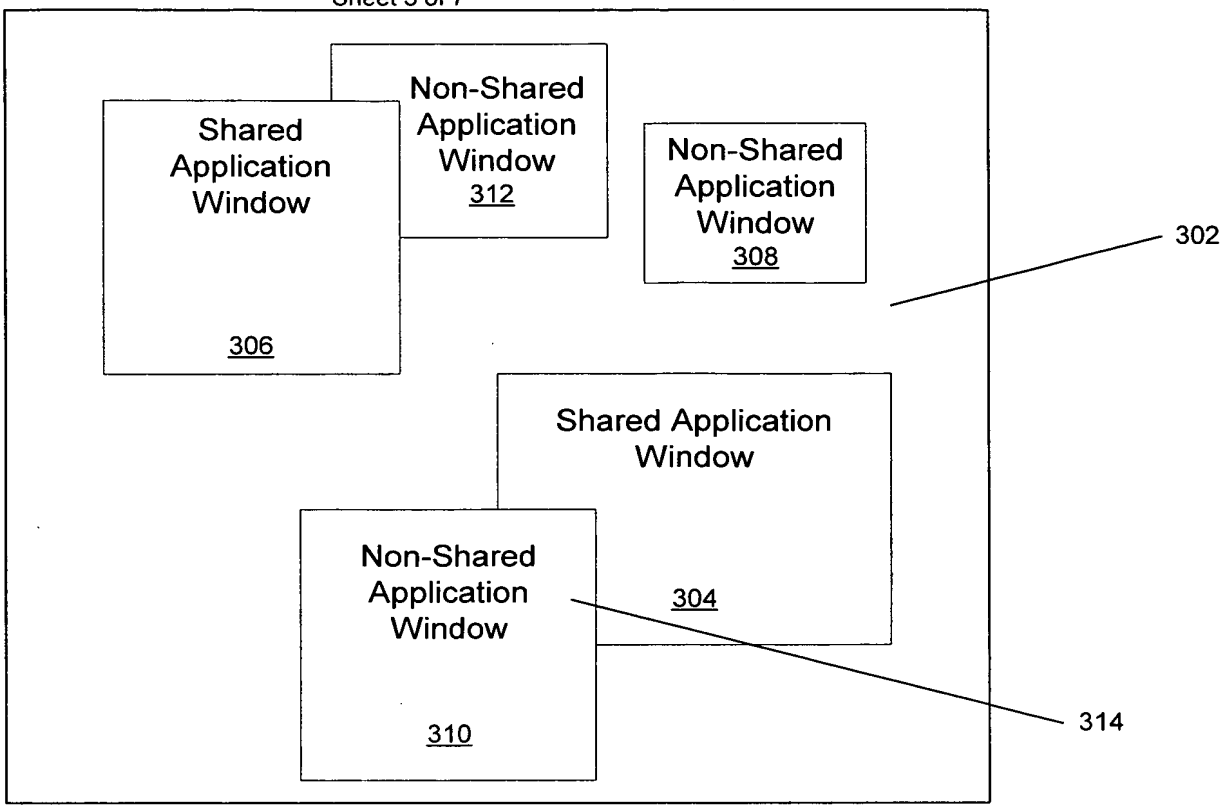

FIG. 3B

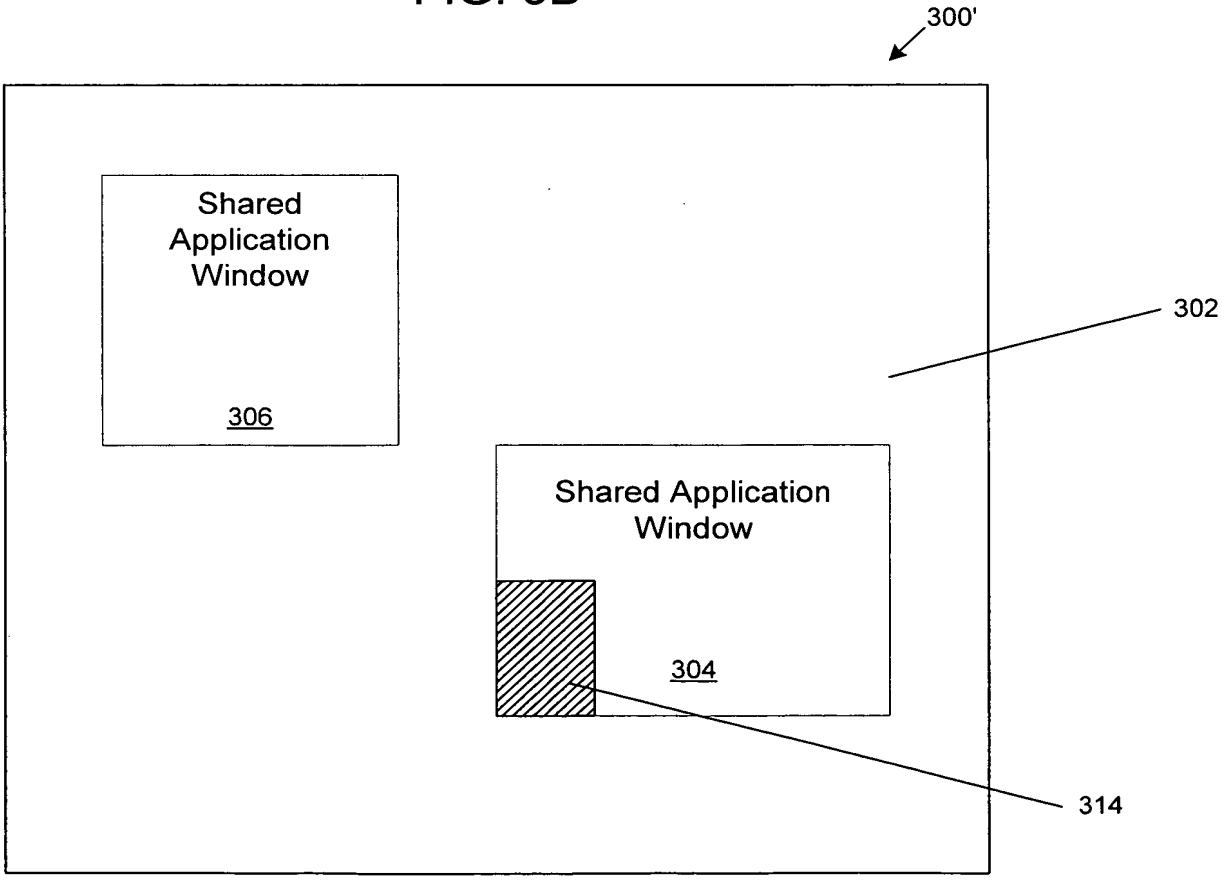

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FIG. 4

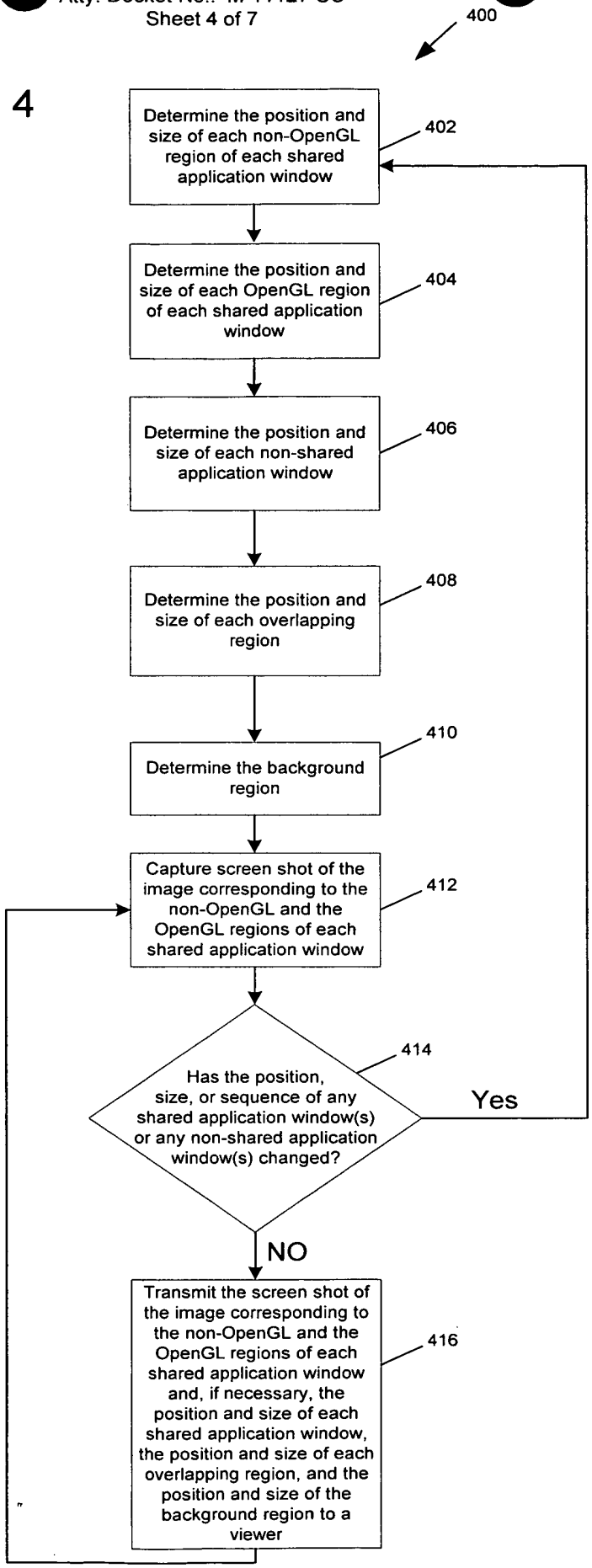

400
Determine the position and size of each non-OpenGL region of each shared application window
402
Determine the position and size of each OpenGL region of each shared application window
404
Determine the position and size of each non-shared application window
406
Determine the position and size of each overlapping region
408
Determine the background region
410
Capture screen shot of the image corresponding to the non-OpenGL and the OpenGL regions of each shared application window
412
Has the position, size, or sequence of any shared application window(s) or any non-shared application window(s) changed?
414
Yes
NO
Transmit the screen shot of the image corresponding to the non-OpenGL and the OpenGL regions of each shared application window and, if necessary, the position and size of each shared application window, the position and size of each overlapping region, and the position and size of the background region to a viewer
416

FIG. 5A

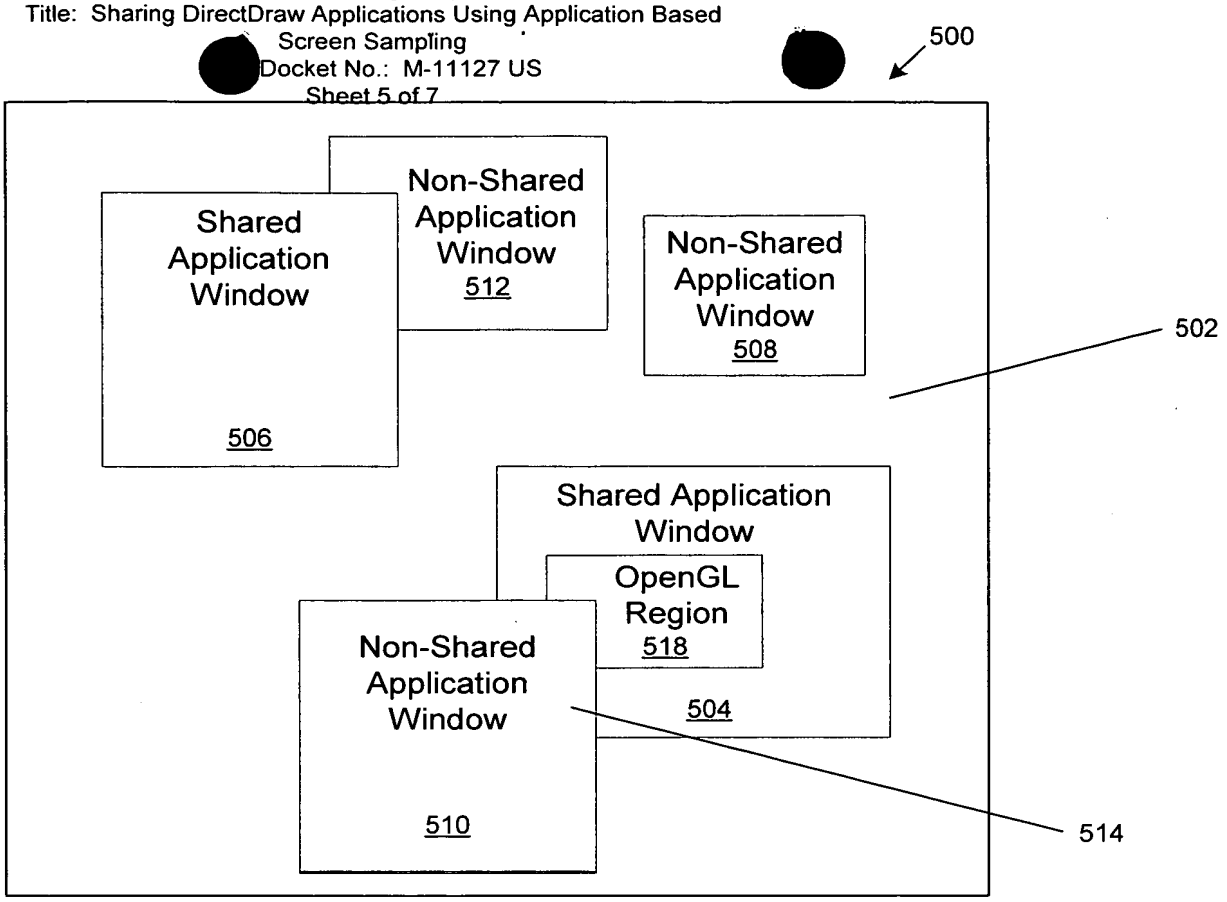

500
Shared Application Window
506
Non-Shared Application Window
512
Non-Shared Application Window
508
502
Shared Application Window
OpenGL Region
518
504
Non-Shared Application Window
510
514

FIG. 5B

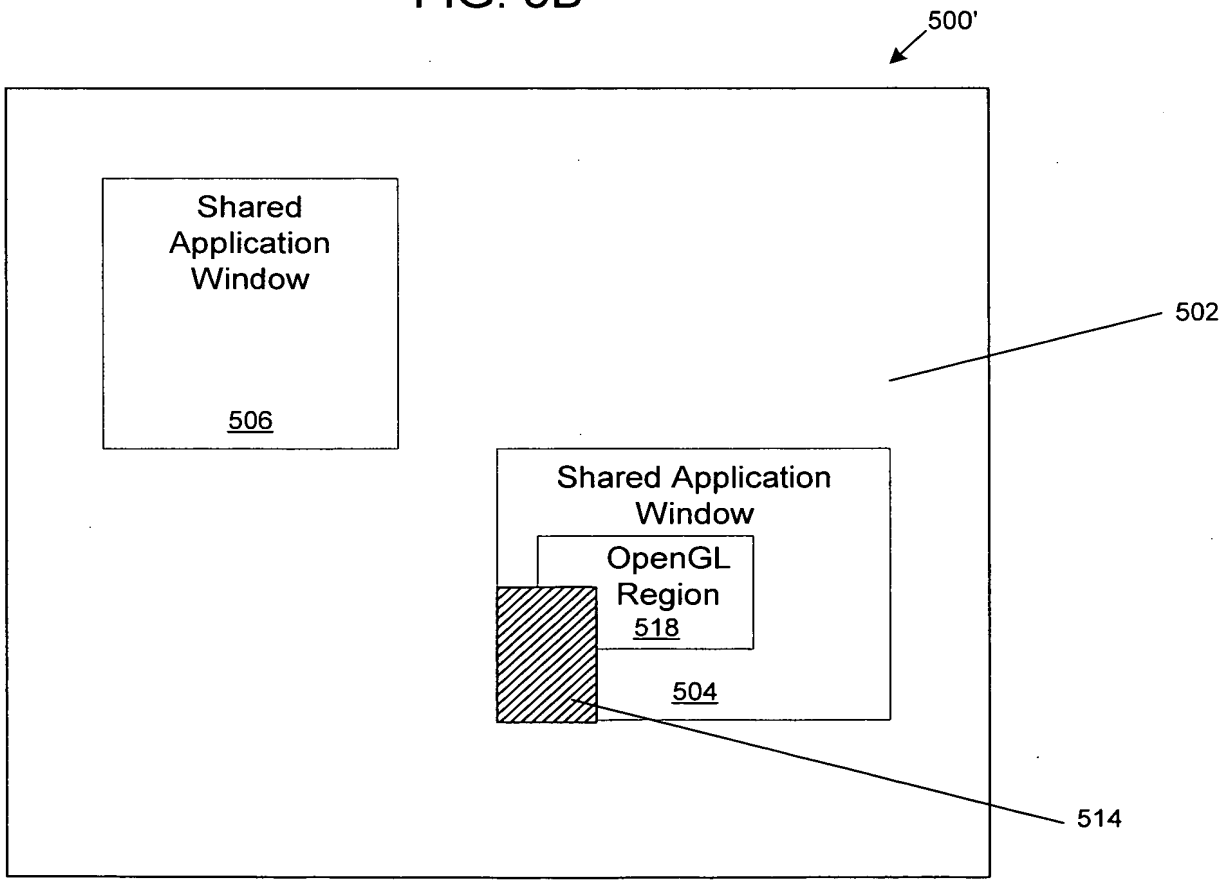

500'
Shared Application Window
506
502
Shared Application Window
OpenGL Region
518
504
514

FIG. 6

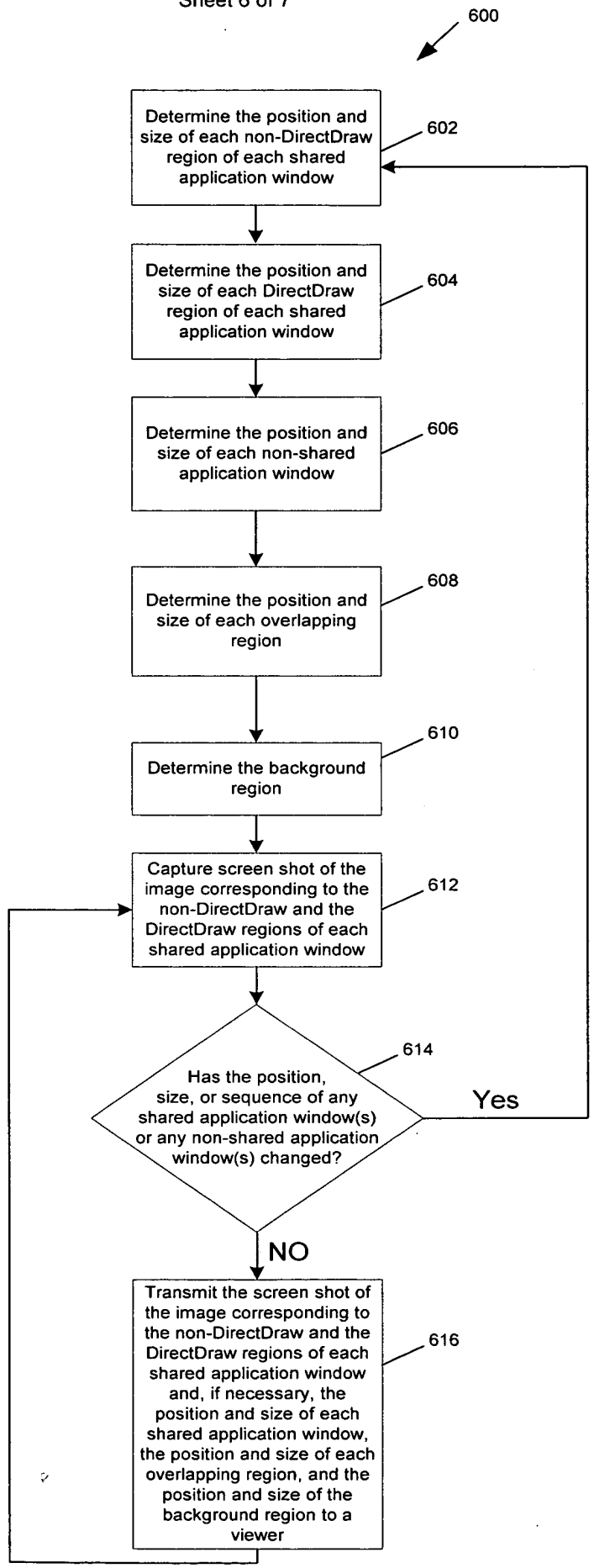

600
Determine the position and size of each non-DirectDraw region of each shared application window
602
Determine the position and size of each DirectDraw region of each shared application window
604
Determine the position and size of each non-shared application window
606
Determine the position and size of each overlapping region
608
Determine the background region
610
Capture screen shot of the image corresponding to the non-DirectDraw and the DirectDraw regions of each shared application window
612
Has the position, size, or sequence of any shared application window(s) or any non-shared application window(s) changed?
614
Yes
NO
Transmit the screen shot of the image corresponding to the non-DirectDraw and the DirectDraw regions of each shared application window and, if necessary, the position and size of each shared application window, the position and size of each overlapping region, and the position and size of the background region to a viewer
616

FIG. 7A

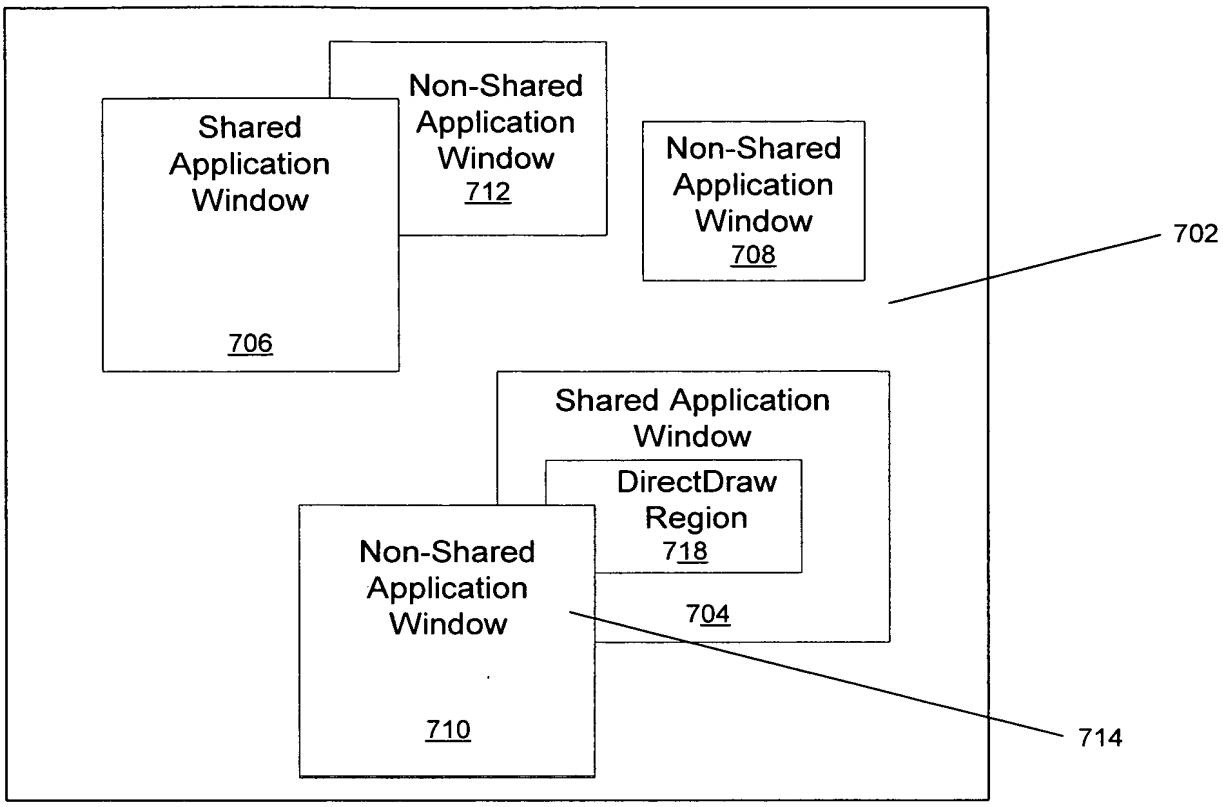
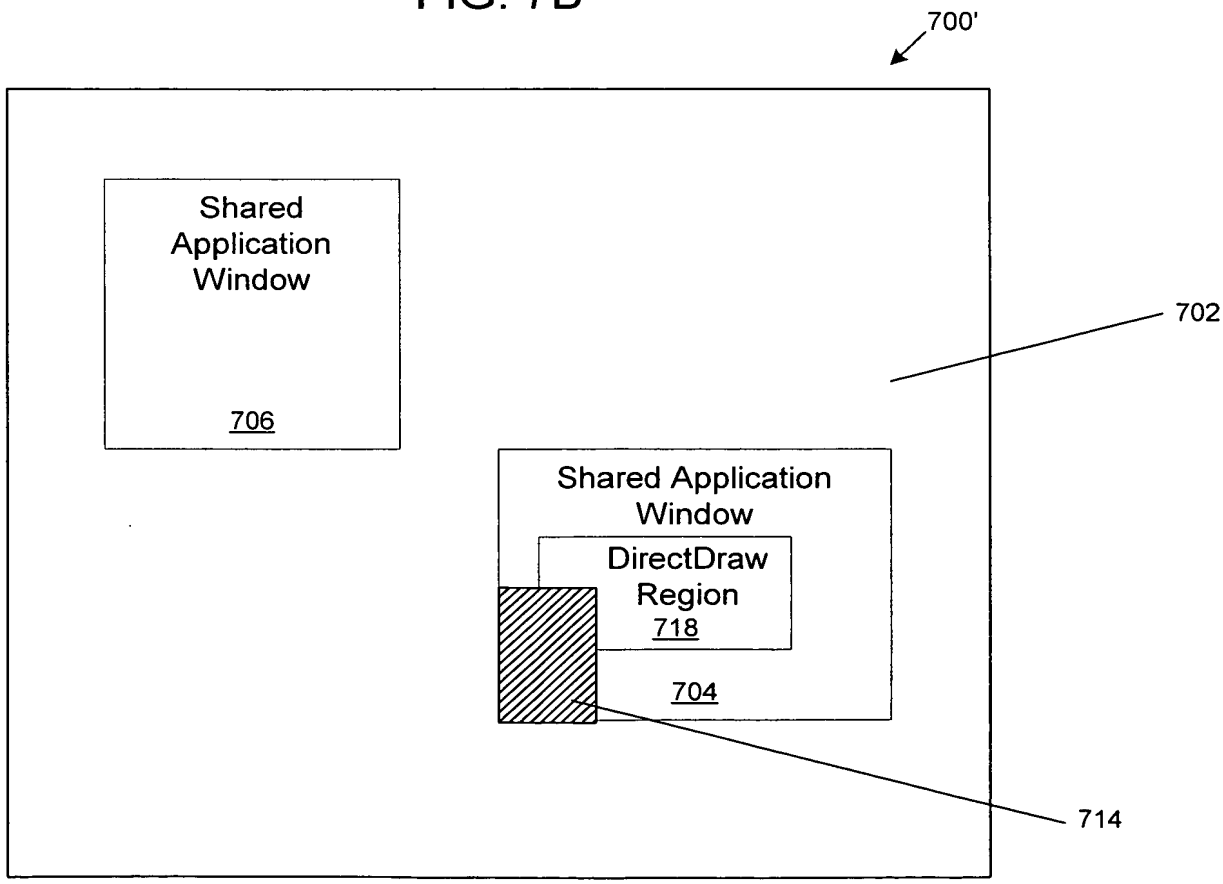

Non-Shared Application Window 712
Shared Application Window 706
Non-Shared Application Window 708
702
Shared Application Window
DirectDraw Region 718
704
Non-Shared Application Window 710
714

FIG. 7B


700'
Shared Application Window 706
702
Shared Application Window
DirectDraw Region 718
704
714